FEB 0 7 2005

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: Steven A. May 1303 EAST ALGONQUIN ROAD NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND SCHAUMBURG, IL 60196 THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION IF NO RESPONST IS NEEDED (PCT Rule 44.1) CAROL Date of mailing (day/month/year) Applicant's or FOR FURTHER ACTION See paragraphs 1 and 4 below CE10654R International filing date International application (day/month/year) 24 June 2004 (24.06.2004) PCT/US04/20439 Applicant MOTOROLA, INC., A CORPORATION OF THE STATE OF DELAWARE The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international . Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Authorized office Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Edan Orgad Commissioner for Patents

(See notes on accompanying sheet)

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Form PCT/ISA/220 (January 2004)

## PATENT COOPERATION TREATY

### **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

CE10654R	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable,			
International application No. PCT/US04/20439	International filing date (day/month/year) 24 June 2004 (24.06.2004)  [Real lest   Priority Date (day/month/year)   26 June 2003 (26.06.200)				
Applicant MOTOROLA, INC., A CORPORATION	OF THE STATE OF DELAWARE				
5	A seems a ansamage to the lines	arching Authority and is transmitted to the national Bureau.			
This international search report consists		•			
It is also accompanied	by a copy of each prior art docur	nent cited in this report.			
	THE PROPERTY OF THE PROPERTY OF THE PARTY OF	ut on the basis of the international application in the sitem.			
		on of the international application furnished to this			
search was carried out on the b	and/or amino acid sequence disclor asis of the sequence listing:	sed in the international application, the international			
1 1	contained in the international application in written form.				
	filed together with the international application in computer readable form.				
furnished subsequently to this					
	Authority in computer readable for				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
the statement that the informa been furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing base				
2. Certain claims were found u	Certain claims were found unsearchable (See Box I).				
Unity of invention is lacking (See Box II).					
<b>K</b> 2	With regard to the title,				
the text is approved as submit					
use text has been established b	by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as submit	ted by the applicant.				
the text has been established, it may, within one month from the	according to Rule 38.2(b), by this As he date of mailing of this internation	uthority as it appears in Box III. The applicant al search report, submit comments to this Authority.			
6. The figure of the drawings to be publi		•			
as suggested by the applicant.	•	None of the figures			
because the applicant failed to	suggest a figure.				
because this figure better char	acterizes the invention.	·			
orm PCT/ISA/210 (first sheet) (July 1998)					

INTERNATIONAL SEARCH REPOR		)Tr	International application	cation No.	
HITERIATIONAL SEARCH REPUR					
A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : H04B 7/00; H04Q 7/00  US CL : 455/436, 442, 522  According to International Patent Classification (IPC) or to both national classification and IPC					
	DS SEARCHED	HOIRI CIAA		* <del>************************************</del>	
Minimum documentation searched (classification system followed by classification symbols) U.S.: 455/436, 442, 522					
Documentation	on searched other than minimum documentation to the	extent that	t such documents are included	in the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	opropriate,	of the relevant passages	Relevant to claim No.	
х	US006185199 B1 (ZEHAVI) 06 February 2001, sec	detailed w	ritten opinion 237 report.	1, 5 and 9	
Ā				2-4, 6-8 and 10	
x _	US006097972 A (SAAINTS et al.) 01 August 2000, see entire document.			1, 5 and 9	
A				2-4, 6-8 and 10	
Y	US 5,640,414 A (BLACKENEY, II et al) 17 June 1997, see col. 3, line 21- col. 4, line 24		1, 5 and 9		
	Y US 20020126739 A1 (TIEDEMANN, JR. et al) 12 September 2002, see paragraphs 20-26		1, 5 and 9		
Y	Y US 20020093918 A1 (KIM et al) 18 July 2002, see emire document.		1, 5 and 9		
X,P US006757270B1 (KUMAR et al) 29 June 2004, see entire document.		1, 5 and 9			
Purther	documents are listed in the continuation of Box C.		See patent family annex.		
)	pecial casegories of cited documents:	"T"	later document published after the inter- date and not in conflict with the applica	tion but cited to understand the	
	defining the general state of the art which is not considered to be of relevance		principle or theory underlying the lover		
"E" carlier ap	plication or patent published on or after the international filing dute	·x·	document of particular relevance; the c considered novel or carnot be considere when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is caled to establish the publication date of another classion or other special reason (as specified)		-Y-	document of particular relevance; the considered to involve an inventive step with one or more other such documents obvious to a person sidiled in the an	when the document is combined	
"P" documen	t referring to an oral disclosure, use, exhibition or other means  t published prior to the international filing date but later than the	·a·	document member of the same patent f	amily	
	priority date claimed			-h	
Date of the actual completion of the international search  Date of mailing of the international search  Date of mailing of the property 2004 (12.12.2004)		nailing of the international search	л пероп		

Edan Orgad

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Commissioner for Patents
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12 December 2004 (12,12,2004)
Name and mailing address of the ISA/US

#### PATENT COOPERATION TREATS

From the INTERNATIONAL SEARCHING AUTHORITY	ERATION TREATY		
To: STEVEN A. MAY 1303 EAST ALGONQUIN ROAD SCHAUMBURG, IL 60196	PCT		
	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
	(PCT Rule 43bis.1)		
Applicant's or agent's file reference	Date of mailing (day/morth/year) 29 DEC 2004		
CE10654R	FOR FURTHER ACTION See paragraph 2 below		
International application No. International filing date			
PCT/US04/20439 24 June 2004 514 06 200	- (m)///m/m/m/yea/)		
International Patent Classification (IPC) or both national classification	26 June 2003 (26.06,2003)		
IPC(7): H04B 7/00; H04Q 7/00 and US Cl.: 455/436, 442, 522			
MOTOROLA, INC., A CORPORATION OF THE STATE OF DI	ELAWARE		
1. This opinion contains indications relating to the following item	R-		
Box No. I Basis of the opinion	•		
Box No. II Priority			
Box No. III Non-establishment of oninion with reco	and to name to the same		
Box No. IV Lack of unity of invention	ard to novelty, inventive step and industrial applicability		
Box No. V Reasoned statement under Rule 43his. 1	Box No. V Reasoned statement under Rule 43/bis. 1(a)(i) with regard to negative leaves		
Box No. VI Certain documents cited	the state of the s		
Box No. VII Certain defects in the international appl	ication		
2. FURTHER ACTION			
If a demand for international preliminary examination is made, International Preliminary Examining Authority ("IPEA") exce Authority other than this one to be the IPEA and the chosen IPE that written opinions of this International Searching Authority wi	where the applicant chooses an		
If this opinion is, as provided above, considered to be a written IPBA a written reply together, where appropriate, with amendaling of Form PCT/ISA/220 or before the expiration of 22 mo. For further options, see Form PCT/ISA/220.	opinion of the IPEA, the applicant is invited to submit to the diments, before the expiration of 3 months from the date of onths from the priority date, whichever expires later.		
- 5. Marci options, see Form PC1/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			
fame and mailing address of the ISA/ US	Authorized officer/)		
Mail Stop PCT, Ann: ISA/US Commissioner for Patents	Edan Orgad		
P.O. Box 1450			
Alexandria, Virginia 22313-1450 acsimile No. (703) 305-3230  (Telephone No. 708-305-4223			
rm PCT/ISA/237 (cover sheet) (January 2004)	,		

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
.PCT/US04/20439	

Box N	io. I Basis of this opinion
1. With	regard to the language, this opinion has been excellent
it wa	regard to the language, this opinion has been established on the basis of the international application in the language in whi
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and
2. With claim	regard to any nucleotide and/or amine acid sequence disclosed in the international application and necessary to the
8.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
,	in written format
ļ	in computer readable form
C. (	ime of filing/furnishing
[	contained in international application as filed.
[	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
	Tot are purposes of search.
☐ Ir	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been see application as filed or does not go beyond the application as filed, as a proportion as filed or does not go beyond the application as filed, as a proportion as filed or does not go beyond the application as filed, as a proportion as filed or does not go beyond the application as filed.
u	e application as filed or does not go beyond the application as filed, as appropriate, were furnished
Additions	al comments:
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	1
PCT/ISA	/237(Box No. I) (January 2004)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/20439

Box No. V Reasoned statement under Rule 43 bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 2-4, 6-8 and 10 Claims 1. 5 and 9 YES NO Inventive step (IS) Claims 2-4, 6-8 and 10 Claims 1.5 and 9 YES Industrial applicability (IA) Claims 1-10 YES Claims NONE NO ·

#### Citations and explanations:

Claims 1, 5 and 9 novelty under PCT Article 33(2) as being anticipated by Zehavi (US 6,185,199).

Regarding claim 1, Zehavi teaches a method in a wireless communication system for midgating powercontrol errors during a soft handoff of a mobile unit, the method comprising; programming a plurality of base stations with a uniform power-control bit pattern to be sent to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link (col. 3, lines 1-14); and timing transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times (col. 12, lines 49-63).

Regarding claim 5 and 9. Zehavi teaches an apparatus for use in a wireless communication system for mitigating powercontrol errors during a soft handoff of a mobile unit, the apparatus for use with a base station of a plurality of base stations attempting to communicate with the mobile unit, the apparatus comprising: a processor for controlling the base station (col. 3, lines 1-14), a memory element coupled to the processor for programming the processor, the memory element comprising a uniform powercontrol bit pattern to be sent by different ones of the plurality of base stations to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link (col. 12, lines 49-63); and a synchronizer coupled to the processor for cooperating with the processor to time transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times (col. 6, line 66, col. 7, line 10).

Claims 2 and 6 meet the criteria set out in PCT Article 33(2)-(4), because the prior an does not teach or fairly suggest wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that requires more than a single transmission frame of a forward link from a base station to the mobile unit before the pattern repeats, and wherein timing the transmissions comprises synchronizing the transmissions from each of the plurality of base stations such that the

Claims 3, 7 and 10 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and wherein timing the transmissions comprises starting the transmissions at substantially identical points within different ones of the plurality of

Claims 4 and 8 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at substantially identical points within different ones of the plurality of transmission frames.

Form PCT/ISA/237 (Box No. V) (January 2004)